WHAT IS CLAIMED IS:

1. A pharmaceutical composition for the prevention or treatment of pruritus comprising a compound of formula I or a pharmaceutically acceptable salt thereof

wherein

n = 1-3;

 R_1 and R_2 are independently = CH_3 ;- $(CH_2)_m$, where m=4-8, $-CH_2CH(OH)(CH_2)_2$ -; $-CH_2CH(F)(CH_2)_2$ -; $-(CH_2)_2O(CH_2)_2$ -; or $-(CH_2)_2CH=CHCH_2$ -; Ar=unsubstituted or mono-, or di-substituted phenyl wherein said substituents are selected from the group consisting of halogen, OCH_3 , SO_2CH_3 , CF_3 , amino,alkyl, and 3,4-dichloro; benzothiophenyl; benzofuranyl; naphthyl; diphenyl methyl; or 9-fluorene;

Z is

10

15

 $-P(O)(OBn)_2; -P(O)(OH)_2; -(CH_2)_pC(O)NHOH; -(CH_2)_pCO_2H; -SO_2CH_3; -SO_2NH_2; \\ -CO(CH_2)_pCH(NH_2)(CO_2H); -COCH(NH_2)(CH_2)_pCO_2H; -CO_2CH_3; -CONH_2; \\ -(CH_2)_pO(CH_2)_pCO_2H; -(CH_2)_pO(CH_2)_pCONHOH; -(CH_2)_pNHSO_2CH_3; -(CH_2)_pNHC(S)NHCH(CO_2H)(CH_2)_pCO_2H; -(CH_2)_pSO_3H; or$

or Z is

wherein

5

10

X and Y are independently

 $-CH_2NHSO_2CH_3$, $-CH_2NHP(O)(OBn)_2$, $-CH_2NHP(O)(OH)_2$, $-CH_2OP(O)(OBn)_2$,

 $-CH_2^-OP(O)(OH)_2$, $-(CH_2)_aO(CH_2)_aCO_2H$, $-(CH_2)_aO(CH_2)_aSO_3H$,

-(CH₂)_aO(CH₂)_aCHNHOH,

-CH2NHC(S)NHCH(CO2H)(CH2)aCO2H, or

$$-CH_2$$
 NHR_4
 r
 r
 r
 r
 r

wherein

q = 1-20

r = 1-20

 $R_4 = -H \text{ or } -Ac$

 $X_3 = -CO_2H$; -NHSO₂CH₃; -NHP(O)(OBn)₂;

 $-NHP(O)(OH)_2$; $-OP(O)(OBn)_2$; or

-OP(O)(OH)₂

in a pharmaceutically acceptable carrier.

- The pharmaceutical composition according to claim 1 wherein said compound is 2. selected from the group consisting of: {4-[1-(3,4-Dichlorophenyl)acetyl-2R-(1-pyrrolidinyl)-20 methyl]piperazinyl}acetic acid; [1-(3,4-Dichlorophenyl)acetyl-4-methanesulfonyl-2R-(1pyrrolidinyl)methyl]piperazine; [4-S-Aspartic acid-α-amido-1-(3,4-dichlorophenyl)acetyl-2R-(1-pyrrolidinyl)methyl]piperazine; Methyl-[2R-(O-2-acetic acid)hydroxymethyl-4-(3,4dichlorophenyl)acetyl-3R-(1-pyrrolidinyl)methyl]-1-piperazinecarboxylate; Methyl-[2R-(O-S-aspartic acid-α-acetyl)hydroxymethyl-4-(3,4-dichlorophenyl)acetyl-3R-(1-25
 - pyrrolidinyl)methyl]-1-piperazinecarboxylate; Methyl-[4-(3,4-dichlorophenyl)acetyl-2R-(N-

methanesulfonamido)aminomethyl-3R-(1-pyrrolidinyl)methyl]-1-piperazinecarboxylate; Methyl-{4-[3,4-dichlorophenyl]acetyl-3R-[1-pyrrolidinyl]methyl-2R-[N-(succinic acid-2S-thioureido)]aminomethyl}-1-piperazinecarboxylate; Methyl-[2S-(O-2-acetic acid)hydroxymethyl-4-(3,4-dichlorophenyl)acetyl-5R-(1-pyrrolidinyl)methyl]-1-

- piperazinecarboxylate; Methyl-[2S-(O-S-aspartic acid-α-acetyl)hydroxymethyl-4-(3,4-dichlorophenyl)acetyl-5R-(1-pyrrolidinyl)methyl]-1-piperazinecarboxylate; Methyl-[4-(3,4-dichlorophenyl)acetyl-2S-(N-methanesulfonamido)aminomethyl-5R-(1-pyrrolidinyl)methyl]-1-piperazinecarboxylate; Methyl-{4-[3,4-dichlorophenyl]acetyl-5R-[1-pyrrolidinyl]methyl-2S-[N-(succinic acid-2S-thioureido)]aminomethyl}-1-piperazinecarboxylate; Methyl-[2R-(O-
- 2-acetic acid)hydroxymethyl-4-(3,4-dichlorophenyl)acetyl-5R-(1-pyrrolidinyl)methyl]-1piperazinecarboxylate; Methyl-[2R-(O-S-aspartic acid-α-acetyl)hydroxymethyl-4-(3,4dichlorophenyl)acetyl-5R-(1-pyrrolidinyl)methyl]-1-piperazinecarboxylate; Methyl-[4-(3,4dichlorophenyl)acetyl-2R-(N-methanesulfonamido)aminomethyl-5R-(1-pyrrolidinyl)methyl]1-piperazinecarboxylate; and Methyl-{4-[3,4-dichlorophenyl]acetyl-5R-[1pyrrolidinyl]methyl-2R-[N-(succinic acid-2S-thioureido)]aminomethyl}-1piperazinecarboxylate.
 - 3. The pharmaceutical composition according to claim 1 wherein said compound is selected from the group consisting of:
 - (R)-4-(Phenylmethyl)-1-[(3,4-dichlorophenyl)acetyl]-2-[(1-pyrrolidinyl)methyl]piperazine hydrochloride;
 - (R)-1-[(3,4-Dichlorophenyl)acetyl]-2-[(1-pyrrolidinyl)methyl]piperazine hydrochloride;
 - (R)-4-Methanesulfonyl-1-[(3,4-dichlorophenyl)acetyl]-2-[(1-pyrrolidinyl)methyl]-piperazine hydrochloride;
- 30 (R)-4-t-Butyl-acetyl-1-[(3,4-dichlorophenyl)acetyl]-2-[(1-pyrrolidinyl)methyl]-piperazine;
 - (R)-4-[(3,4-Dichlorophenyl)acetyl]-3-[(1-pyrrolidinyl)methyl]-1-piperazineacetic acid dihydrochloride;
 - (R)-4- N-t-Boc-D-aspartic acid- β -benzyl ester-1-[(3,4-dichlorophenyl)acetyl]-2-[(1-pyrrolidinyl)methyl] -piperazine;
- (R)-4-Aspartic acid-1-[(3,4-dichlorophenyl)acetyl]-2-[(1-pyrrolidinyl)methyl]-piperazine dihydrochloride;
 - (R)-4-Acetyl-1-[(3,4-dichlorophenyl)acetyl]-2-[(1-pyrrolidinyl)methyl] -piperazine hydrochloride;

- (R)-4-(Diethoxyphosphonate)-1-[(3,4-dichlorophenyl)acetyl]-2-[(1-pyrrolidinyl)methyl]-piperazine hydrochloride;
- 5 (R)-4-Trifluoroacetyl-1-[(3,4-dichlorophenyl)acetyl]-2-[(1-pyrrolidinyl)methyl]-piperazine hydrochloride;
 - (R)-4-[(3,4-Dichlorophenyl)acetyl]-3-[(1-pyrrolidinyl)methyl] -1-piperazinecarboxamide hydrochloride;
 - (R)-4-[(3,4-Dichlorophenyl)acetyl]-3-[(1-pyrrolidinyl)methyl] -1-piperazinecarboxaldehyde hydrochloride;
- (R)-4-[(3,4-Dichlorophenyl)acetyl]-3-[(1-pyrrolidinyl)methyl] -1-piperazine-sulfonamide hydrochloride;
 - (R)-4-(4-Methylphenylsulfonyl)-1-[(3,4-dichlorophenyl)acetyl]-2-[(1-pyrolidinyl)methyl] piperazine hydrochloride;
 - (R,S)-4-Methanesulfonyl-1-[(3,4-dichlorophenyl)acetyl]-2-[(1-pyrrolidinyl)methyl] piperazine hydrochloride;
 - (R,S)-4-Methanesulfonyl-1-[(4-methylsulfonylphenyl)acetyl]-2-[(1-pyrrolidinyl)-methyl]piperazine hydrochloride;
 - (R,S)-4-Methanesulfonyl-1-[(2-nitrophenyl)acetyl]-2-[(1-pyrrolidinyl)-methyl]piperazine hydrochloride;
 - (R,S)-4-Methanesulfonyl-1-[(4-trifluoromethylphenyl)acetyl]-2-[(1-pyrrolidinyl)-methyl]piperazine hydrochloride;
 - (R,S)-4-Methanesulfonyl-1-[(3-indolylacetyl]-2-[(1-pyrrolidinyl)-methyl]piperazine hydrochloride;
- 35 (*R,S*)-Methyl 4-[(4-methylsulfonylphenyl)acetyl]-3-[(1-pyrrolidinyl)-methyl]-1-piperazinecarboxylate hydrochloride;
 - (R,S)-Methyl 4-[(4-trifluoromethylphenyl)acetyl]-3-[(1-pyrrolidinyl)-methyl]-1-piperazinecarboxylate hydrochloride;
- 40
 (R,S)-Methyl 4-[(3-indolyl)acetyl]-3-[(1-pyrrolidinyl)-methyl]-1-piperazine-carboxylate hydrochloride;
- (R,S)-Methyl 4-[(2-nitrophenyl)acetyl]-3-[(1-pyrrolidinyl)-methyl]-1-piperazine-carboxylate hydrochloride;
 - (R,S)-Methyl 4-[(2-methoxyphenyl)acetyl]-3-[(1-pyrrolidinyl)-methyl]-1-piperazine-carboxylate hydrochloride;

- (R,S)-Methyl 4-[(2-aminophenyl)acetyl]-3-[(1-pyrrolidinyl)-methyl]-1-piperazine-carboxylate dihydrochloride;
- 5 (*R*,*S*)-4-Acetyl-1-[(4-methylsulfonylphenyl)acetyl]-3-[(1-pyrrolidinyl)-methyl]-piperazine hydrochloride;
 - (R,S)-4-Acetyl-1-(4-trifluoromethylphenyl)acetyl]-3-[(1-pyrrolidinyl)-methyl] piperazinecarboxylate hydrochloride;
 - (R,S)-4-Acetyl-1-[(2-trifluoromethylphenyl)acetyl]-3-[(1-pyrrolidinyl)-methyl] piperazinecarboxylate hydrochloride;

- (R,S)-4-Acetyl-1-[(3-nitrophenyl)acetyl]-3-[(1-pyrrolidinyl)-methyl]piperazine-carboxylate hydrochloride;
 - (R,S)-4-Acetyl-1-[(2-nitrophenyl)acetyl]-3-[(1-pyrrolidinyl)-methyl]piperazine-carboxylate hydrochloride;
- 20 (R,S)-4-Acetyl-1-[(4-nitrophenyl)acetyl]-3-[(1-pyrrolidinyl)-methyl]piperazinecarboxylate hydrochloride; and
 - R,S)-4-(Phenylmethyl)-1-[(4,5,-dichloro-2-nitrophenyl)acetyl]-2-[(1-pyrrolidinyl)methyl]piperazine dihydrochloride.
 - 4. A method for the prevention or treatment of pruritus in a patient comprising hadministering to said patient an effective amount of a composition according to claim 1.
- A method for the prevention or treatment of pruritus in a patient comprising administering to said patient an effective amount of a composition according to claim 2.
 - 6. A method for the prevention or treatment of pruritus in a patient comprising administering to said patient an effective amount of a composition according to claim 3.
- 7. A pharmaceutical composition for the prevention or treatment of pruritus comprising a compound of formula II or a pharmaceutically acceptable salt thereof

$$X_{4}$$
 X_{5}
 X_{4}
 X_{5}
 X_{6}
 X_{7}
 X_{7}
 X_{7}
 X_{8}
 X_{8

wherein

n = 1-3;

 R_1 and R_2 are independently = CH_3 ;- $(CH_2)_m$, where m=4-8, $-CH_2CH(OH)(CH_2)_2$ -; $-CH_2CH(F)(CH_2)_2$ -; $-(CH_2)_2O(CH_2)_2$ -; or $-(CH_2)_2CH=CHCH_2$ -; Ar=unsubstituted or mono-, or di-substituted phenyl wherein said substituents are selected from the group consisting of halogen, OCH_3 , SO_2CH_3 , CF_3 , amino,alkyl, and 3,4-dichloro; benzothiophenyl; benzofuranyl; naphthyl; diphenyl methyl; or 9-fluorene;

 X_4 and X_5 are independently

-OP(O)(OBn)₂; -OP(O)(OH),; -CO₂H; -SO₃H; -SO₃H; -O(CH₂)_nCO₂H; -NHSO₂CH₃; -CONH(CH₂)_sCO₂H; or -SO₂NH(CH₂)_sCO₂H; wherein s=1-5

or X_4 and X_5 are independently

wherein

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t = 1-20

R<sub>5</sub> = -H or -Ac

X<sub>6</sub> = -CO<sub>2</sub>H; -NHSO<sub>2</sub>CH<sub>3</sub>; -NHP(O)(OBn)<sub>2</sub>;

-NHP(O)(OH)<sub>2</sub>; -OP(O)(OBn)<sub>2</sub>; or

-OP(O)(OH)<sub>2</sub>.

in a pharmaceutically acceptable carrier.
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- 8. The pharmaceutical composition according to claim 7 wherein said compound is selected from the group consisting of: (±)-2-(3,4-dichlorophenyl)-N-methyl-N-1-[1,2,3,4-tetrahydro-5-(O-2-acetic acid)-hydroxy-2-(1-pyrrolidinyl)naphthyl]acetamide; (±)-2-(3,4-dichlorophenyl)-N-methyl-N-1-[1,2,3,4-tetrahydro-7-(O-2-acetic acid)-hydroxy-2-(1-pyrrolidinyl)naphthyl]acetamide; (±)-2-(3,4-dichlorophenyl)-N-methyl-N-1-[1,2,3,4-tetrahydro-7-(N-methanesulfonamido)-amino-2-(1-pyrrolidinyl)naphthyl]acetamide; (±)-2-(3,4-dichlorophenyl)-N-methyl-N-1-[1,2,3,4-tetrahydro-5-(N-2-acetic acid)-carboxamido-2-(1-pyrrolidinyl)naphthyl]acetamide; (±)-2-(3,4-dichlorophenyl)-N-methyl-N-1-[1,2,3,4-tetrahydro-5-(N-2-acetic acid)-sulfonamido-2-(1-pyrrolidinyl)naphthyl]acetamide; (±)-2-(3,4-dichlorophenyl)-N-methyl-N-1-[1,2,3,4-tetrahydro-7-(N-2-acetic acid)-sulfonamido-2-(3,4-dichlorophenyl)-N-methyl-N-1-[1,2,3,4-tetrahydro-7-(N-2-acetic acid)-carboxamido-2-(1-pyrrolidinyl)naphthyl]acetamide; and (±)-2-(3,4-dichlorophenyl)-N-methyl-N-1-[1,2,3,4-tetrahydro-7-(N-2-acetic acid)-sulfonamido-2-(1-pyrrolidinyl)naphthyl]acetamide; and (±)-2-(3,4-dichlorophenyl)-N-methyl-N-1-[1,2,3,4-tetrahydro-7-(N-2-acetic acid)-sulfonamido-2-(1-pyrrolidinyl)naphthyl]acetamide;
- 9. The pharmaceutical composition according to claim 7 wherein said compound is selected from the group consisting of:
- 2-{7-[(±)-trans-1-(N-3,4-dichlorophenylacetamido-N-methylamino)-2-(1-pyrrolidinyl)-1,2,3,4-tetrahydronaphthoxy]}acetic acid;
- 2,2-Diphenyl-N-methyl-N- $[(\pm)$ -trans-2-(1-pyrrolidinyl)-7-methoxy-1,2,3,4-tetrahydronaphth-1-yl]acetamide;
- 25
 2,2-Diphenyl-N-methyl-N-[(±)-trans-2-(1-pyrrolidinyl)-7-hydroxy-1,2,3,4-tetrahydronaphth-1-yl]acetamide;
- 2-(2-Nitro-4,5-dichlorophenyl)-N-methyl-N-[(±)-trans-2-(1-pyrrolidinyl)-7-nitro-1,2,3,4-30 tetrahydronaphth-1-yl]acetamide;
 - $2-(3,4-Dichlorophenyl)-N-methyl-N-[(\pm)-trans-2-(1-pyrrolidinyl)-7-nitro-1,2,3,4-tetrahydronaphth-1-yl] acetamide;$

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- 2-(3,4-Dichlorophenyl)-N-methyl-N-[(±)-trans-2-(1-pyrrolidinyl)-7-amino-1,2,3,4-tetrahydronaphth-1-yl]acetamide;
- 2-(4-Methylsulfonylphenyl)-N-methyl-N-[(±)-trans-2-(1-pyrrolidinyl)-7-nitro-1,2,3,4-tetrahydronaphth-1-yl]acetamide;
 - 2-(3,4-Dichlorophenyl)-N-methyl-N-{[±]-trans-2-[1-pyrrolidinyl]-7-[N,N-bis-(t-butoxycarbonylmethyl)-amino]-1,2,3,4-tetrahydronaphth-1-yl}acetamide;
- 2-(3,4-Dichlorophenyl)-N-methyl-N-{[±]-trans-2-[1-pyrrolidinyl]-7-[N,N-bis-(carboxymethyl)amino]-1,2,3,4-tetrahydronaphth-1-yl}acetamide;
 - 2-(3,4-Dichlorophenyl)-N-methyl-N-{[±]-trans-2-[1-pyrrolidinyl]-7-[N,N-bis-(ethoxycarbonylmethyl)-amino]-1,2,3,4-tetrahydronaphth-1-yl}acetamide;
 - 2-(3,4-Dichlorophenyl)-N-methyl-N-[(±)-trans-2-(1-pyrrolidinyl)-7-(N-diethylphosphoramidato-amino)-1,2,3,4-tetrahydronaphth-1-yl]acetamide;
 - 2-(3,4-Dichlorophenyl)-N-methyl-N-{[±]-trans-2-[1-pyrrolidinyl]-7-[N-2-(diethylphosphoryl)ethyl-amino]-1,2,3,4-tetrahydronaphth-1-yl}acetamide;
 - 2-(3,4-Dichlorophenyl)-N-methyl-N-[(±)-trans-2-(1-pyrrolidinyl)-6-methoxy-7-(N-benzyl-N-methylaminosulfonyl)-1,2,3,4-tetrahydronaphth-1-yl]acetamide;
 - 2-(3,4-Dichlorophenyl)-N-methyl-N-[(±)-trans-2-(1-pyrrolidinyl)-7-(N-benzyl-N-methylaminosulfonyl)-1,2,3,4-tetrahydronaphth-1-yl]acetamide;
 - 2-(2-Nitro-4,5-dichlorophenyl)-N-methyl-N-[(±)-trans-2-(1-pyrrolidinyl)-indan-1-yl]acetamide;
 - 2-(2-Nitro-4-trifluoromethylphenyl)-N-methyl-N-[(±)-trans-2-(1-pyrrolidinyl)-indan-1-yl]acetamide;
 - 2,2-Diphenyl-N-methyl-N-[(±)-trans-2-(1-pyrrolidinyl)-indan-1-yl]acetamide; and
 - 2-(4-Methylsulfonylphenyl)-N-methyl-N-[(±)-trans-2-(1-pyrrolidinyl)-indan-1-yl]acetamide.
 - 10. A method for the prevention or treatment of pruritus in a patient comprising administering to said patient an effective amount of a composition according to claim 7.
 - 11. A method for the prevention or treatment of pruritus in a patient comprising administering to said patient an effective amount of a composition according to claim 8.

- 12. A method for the prevention or treatment of pruritus in a patient comprising administering to said patient an effective amount of a composition according to claim 9.
- 13. A pharmaceutical composition for the prevention or treatment of pruritus comprising a compound of the formula III or a pharmaceutically acceptable salt thereof

wherein

n = 1-3; R_1 and R_2 are independently = CH_3 ;- $(CH_2)_m$, where m = 4-8, - $CH_2CH(OH)(CH_2)_2$ -; - $CH_2CH(F)(CH_2)_2$ -; - $(CH_2)_2O(CH_2)_2$ -; or - $(CH_2)_2CH=CHCH_2$ -; Ar = unsubstituted or mono-, or di-substituted phenyl wherein said substituents are selected from the group consisting of halogen, OCH_3 , SO_2CH_3 , CF_3 , amino,alkyl, and 3,4-dichloro; benzothiophenyl; benzofuranyl; naphthyl; diphenyl methyl; or 9-fluorene;

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X_7 is -NHSO_2CH_3; -NHP(O)(OBn)_2; -NHP(O)(OH)_2; -(CH_2)_uNHSO_2CH_3; \\ -(CH_2)_uNHC(S)NHCH(CO_2H)(CH_2)_uCO_2H; -CONHOH; or -(CH_2)_uCONHOH; \\ wherein \\ u = 1-5; \\ or X_7 is
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$$\begin{pmatrix} N \\ N \\ V \\ V \\ X_8 \end{pmatrix}$$
; or $\begin{pmatrix} N \\ N \\ N \\ N \end{pmatrix}$

$$R_6$$
 = -H or -Ac;
 X_8 = -CO₂H; -NHSO₂CH₃; -NHP(O)(OBn)₂;
-NHP(O)(OH)₂; -OP(O)(OBn)₂; or
-OP(O)(OH)₂;

$$\begin{split} R_7 &= \text{-NH}(\text{CH}_2)_v \text{CO}_2\text{H}; \text{-NH}(\text{CH}_2)_v \text{CH}(\text{NH}_2)(\text{CO}_2\text{H}); \\ &- \text{NH}(\text{CH}_2)_v \text{H}(\text{CH}_2)_v \text{NH}_2; \text{-NH}(\text{CH}_2)_v \text{SO}_3\text{H}; \\ &- \text{NH}(\text{CH}_2)_v \text{PO}_3\text{H}_2; \text{-NH}(\text{CH}_2)_v \text{NHC}(\text{NH})\text{NH}_2; \text{ or } \\ &- \text{NH}(\text{CO}_2\text{H})(\text{CH}_2)_v \text{CO}_2\text{H}; \text{ and } \\ v = 1\text{-}20. \end{split}$$

in a pharmaceutically acceptable carrier.

- The pharmaceutical composition according to claim 13 wherein said compound is selected from the group consisting of:

 2-(3,4-dichlorophenyl)-N-methyl-N-{1-[3-(N-2-acetic acid)carboxamido]phenyl-2-(1-pyrrolidinyl)ethyl} acetamide; 2-(3,4-dichlorophenyl)-N-methyl-N-{1-[3-(N-methanesulfonamido)aminomethyl]phenyl-2-(1-pyrrolidinyl)ethyl} acetamide; 2-(3,4-dichlorophenyl)-N-methyl-N-{1-[3-(N-succinic acid-2S-thioureido)aminomethyl]phenyl-2-(1-pyrrolidinyl)ethyl} acetamide; and 2-(3,4-dichlorophenyl)-N-methyl-N-{1-[3-(N-2-acetic acid)sulfonamido]phenyl-2-(1-pyrrolidinyl)ethyl} acetamide.
 - 15. The pharmaceutical composition according to claim 13 wherein said compound is selected from the group consisting of:
 - $2-(3,4-Dichlorophenyl)-N-methyl-N-{[1S]-1-[N-(S-aspartic acid-α-amide-S-aspartic acid-α-amido)-3-aminophenyl]-2-[1-pyrrolidinyl]ethyl} acetamide;$
- 20 2-(3,4-Dichlorophenyl)-N-methyl-N-{[1S]-1-[N-(bis-methylsulfonamido)-3-aminophenyl]-2-[1-pyrrolidinyl]ethyl} acetamide;
 - 2-(2-Nitrophenyl)-N-methyl-N-[(1S)-1-(3-nitrophenyl)-2-(1-pyrrolidinyl)ethyl]acetamide;
- 25 2-(2-Aminophenyl)-N-methyl-N-[(1S)-1-(3-aminophenyl)-2-(1-pyrrolidinyl)ethyl]acetamide;
 - $\hbox{$2$-(N-Diethyl phosphoramidate-2-aminophenyl)-N-methyl-N-[(1S)-1-(N-diethyl phosphoramidate-3-aminophenyl)-2-(1-pyrrolidinyl)ethyl] acetamide;}$
- 2-(N-Bis-sulfonamido-2-aminophenyl)-N-methyl-N-[(1S)-1-(N-bis-sulfonamido-3-aminophenyl)-2-(1-pyrrolidinyl)ethyl]acetamide;
 - 2-(2-Nitro-4,5-dichlorophenyl)-N-methyl-N-[(1S)-1-(3-nitrophenyl)-2-(1-pyrrolidinyl)ethyl]acetamide;

- 2-(4-Methylsulfonylphenyl)-N-methyl-N-[(1S)-1-(3-nitrophenyl)-2-(1-pyrrolidinyl)ethyl]acetamide;
- 2-(N-Butyloxycarbonyl-4-aminophenyl)-N-methyl-N-[(1S)-1-(3-nitrophenyl)-2-(1-pyrrolidinyl)ethyl]acetamide;
 - 2-(4-Aminophenyl)-N-methyl-N-[(1S)-1-(3-nitrophenyl)-2-(1-pyrrolidinyl)ethyl]acetamide;
- 2-(N-Bis-sulfonamido-4-aminophenyl)-N-methyl-N-[(1S)-1-(3-nitrophenyl)-2-(1-pyrrolidinyl)ethyl]acetamide;
 - 2-(N-Bis-sulfonamido-4-aminophenyl)-N-methyl-N-[(1S)-1-(3-aminophenyl)-2-(1-pyrrolidinyl)ethyl]acetamide;
- 2-(N-Bis-sulfonamido-4-aminophenyl)-N-methyl-N-[(1S)-1-(N-diethyl phosphoramidate-3-aminophenyl)-2-(1-pyrrolidinyl)ethyl]acetamide;
- 2-(2-Nitrophenyl)-N-methyl-N-{[1S]-1-phenyl-2-[1-(3S)-(3-hydroxypyrrolidinyl)]ethyl}acetamide;
 - 2-(2-Nitro-4,5-dichlorophenyl)-N-methyl-N-{[1S]-1-phenyl-2-[1-(3S)-(3-hydroxypyrrolidinyl)]ethyl} acetamide;
 - 2-(4-Methylsulfonylphenyl)-N-methyl-N-{[1S]-1-phenyl-2-[1-(3S)-(3-hydroxypyrrolidinyl)]ethyl}acetamide;
 - 2-(2-Nitro-4-trifluoromethylphenyl)-N-methyl-N-{[1S]-1-phenyl-2-[1-(3S)-(3-hydroxypyrrolidinyl)]ethyl}acetamide;
 - 2-(2-Amino-4-trifluoromethylphenyl)-N-methyl-N-{[1S]-1-phenyl-2-[1-(3S)-(3-hydroxypyrrolidinyl)]ethyl}acetamide;
 - 2,2-Diphenyl-N-methyl-N-[(1S)-1-phenyl-2-(1-pyrrolidinyl)ethyl]acetamide;
- 30 N',N'-Diphenyl-N-methyl-N-[(1S)-1-phenyl-2-(1-pyrrolidinyl)ethyl]urea;
 - $\hbox{$2$-(2-Nitrophenyl)-N-methyl-N-[(1S)-1-phenyl-2-(1-pyrrolidinyl)] acetamide;}\\$
- 2-(2-Nitro- 4,5-dichlorophenyl)-N-methyl-N-[(1S)-1-phenyl-2-(1-pyrrolidinyl)ethyl]acetamide;
- 2-(4-Methylsulfonylphenyl)-N-methyl-N-[(1S)-1-phenyl-2-(1-pyrrolidinyl)ethyl]acetamide;
 - 2-(2-Methoxyphenyl)-N-methyl-N-[(1S)-1-phenyl-2-(1-pyrrolidinyl)ethyl]acetamide;
- 40 2-(3-Indolyl)-N-methyl-N-[(1S)-1-phenyl-2-(1-pyrrolidinyl)ethyl]acetamide;
 - $2\hbox{-}(\alpha,\alpha,\alpha-Trifluoro-p-tolyl)-N-methyl-N-[(1S)-1-phenyl-2\hbox{-}(1-pyrrolidinyl)ethyl] acetamide;$



- 2-(2-Nitro- α , α , α -Trifluoro-4-tolyl)-N-methyl-N-[(1S)-1-phenyl-2-(1-pyrrolidinyl)ethyl]acetamide;
- 2-(1-[4-Chlorobenzoyl)-5-methoxy-2-methyl indole)-N-[(1S)-1-phenyl-2-(1-pyrrolidinyl)ethyl]acetamide;
 - 2-(4-Nitrophenyl)-N-methyl-N-[(1S)-1-phenyl-2-(1-pyrrolidinyl)ethyl]acetamide;
 - 2-(3-Nitrophenyl)-N-methyl-N-[(1S)-1-phenyl-2-(1-pyrrolidinyl)ethyl]acetamide;
 - 2-(2-Pyridyl)-N-methyl-N-[(1S)-1-phenyl-2-(1-pyrrolidinyl)ethyl]acetamide;
 - 2-(3-Pyridyl)-N-methyl-N-[(1S)-1-phenyl-2-(1-pyrrolidinyl)ethyl]acetamide;
- 2-((+)-6-Methoxy-α-methyl-2-napthalene)-N-[(1S)-1-phenyl-2-(1-pyrrolidinyl)ethyl]acetamide;
 - $2-(\alpha,\alpha,\alpha-Trifluoro-3-tolyl)-N-methyl-N-[(1S)-1-phenyl-2-(1-pyrrolidinyl)ethyl]acetamide;$
 - 2-(4-Pyridyl)-N-methyl-N-[(1S)-1-phenyl-2-(1-pyrrolidinyl)ethyl]acetamide;
 - $2-(\alpha,\alpha,\alpha-Trifluoro-2-tolyl)-N-methyl-N-[(1S)-1-phenyl-2-(1-pyrrolidinyl)ethyl]acetamide;$
 - $2-((S)-(+)-4-Isobutyl-\alpha-methylphenyl)-N-methyl-N-[(1S)-1-phenyl-2-(1-pyrrolidinyl)ethyl]acetamide;$
 - 2-(3,4,5-Trimethoxyphenyl)-N-methyl-N-[(1S)-1-phenyl-2-(1-pyrrolidinyl)ethyl]acetamide;
 - 2-(2-Aminophenyl)-N-methyl-N-[(1S)-1-phenyl-2-(1-pyrrolidinyl)ethyl]acetamide;
 - 2-(2-N,N-Dimethylsulfonamido-2-aminophenyl)-N-methyl-N-[(1S)-1-phenyl-2-(1-pyrrolidinyl)ethyl]acetamide;
- 2-(N-Methylsulfonamido-2-aminophenyl)-N-methyl-N-[(1S)-1-phenyl-2-(1-pyrrolidinyl)ethyl]acetamide;
 - 2-(2-Amino 4,5-dichlorophenyl)-N-methyl-N-[(1S)-1-phenyl-2-(1-pyrrolidinyl)ethyl]acetamide;
- 2-(N,N-Dimethylsulfonamido-2-amino-4,5-dichlorophenyl)-N-methyl-N-[(1S)-1-phenyl-2-(1-pyrrolidinyl)ethyl]acetamide;
 - $2-(2-Amino,\alpha,\alpha,\alpha-Trifluoro-4-tolyl)-N-methyl-N-[(1S)-1-phenyl-2-(1-pyrrolidinyl)ethyl]acetamide;$
 - 2-(2-N,N-Dimethylsulfonamido-2-amino- α , α , α -trifluoro-4-tolyl)-N-methyl-N-[(1S)-1-phenyl-2-(1-pyrrolidinyl)ethyl]acetamide;

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- 2-(N-Methylsulfonamido-2-amino- α , α , α -trifluoro-4-tolyl)-N-methyl-N-[(1S)-1-phenyl-2-(1-pyrrolidinyl)ethyl]acetamide;
- 2-(2-Aminophenyl)-N-methyl-N-[(1S)-1-phenyl-2-(1-pyrrolidinyl)ethyl]acetamide;
- 2-(4-Aminophenyl)-N-methyl-N-[(1S)-1-phenyl-2-(1-pyrrolidinyl)ethyl]acetamide;
- 2-(N,N-Dimethylsulfonamido-2-aminophenyl)-N-methyl-N-[(1S)-1-phenyl-2-(1-pyrrolidinyl)ethyl]acetamide;
- 2-(N,N-Dimethylsulfonamido-2-aminophenyl)-N-methyl-N-[(1S)-1-phenyl-2-(1-pyrrolidinyl)ethyl]acetamide;
- 2-(2-Hydroxyphenyl)-N-methyl-N-methyl-N-[(1S)-1-phenyl-2-(1-pyrrolidinyl)ethyl]acetamide; and
 - N-Methyl-N-[(1S)-1-phenyl-2-((3S)-3-hydroxypyrrolidine-1-yl)ethyl]-3-4,5-trimethoxyphenylacetamide.
 - 16. A method for the prevention or treatment of pruritus in a patient comprising administering to said patient an effective amount of a composition according to claim 13.
 - 17. A method for the prevention or treatment of pruritus in a patient comprising administering to said patient an effective amount of a composition according to claim 14.
 - 18. A method for the prevention or treatment of pruritus in a patient comprising administering to said patient an effective amount of a composition according to claim 15.
- 30 19. A pharmaceutical composition for the prevention or treatment of pruritus comprising a compound of the formula IV or a pharmaceutically acceptable salt thereof

$$R_4$$
 R_3 R_2 R_3 R_2 R_3 R_4 R_4 R_5 R_5

wherein



n = 1-3;

 R_1 and R_2 are independently = CH_3 ;- $(CH_2)_m$, where m = 4-8, - $CH_2CH(OH)(CH_2)_2$ -; - $CH_2CH(F)(CH_2)_2$ -; - $(CH_2)_2O(CH_2)_2$ -; or - $(CH_2)_2CH=CHCH_2$ -;

R₃ and R₄ are independently H; OCH₃; alkyl; or c-O(CH₂)₂;

5 $X_9 = 1-4$ substituents selected from the groups consisting of

-halogen, -CF₃; -OCH₃; -SO₂NH(CH₂)_qCO₂H; -CONH(CH₂)_qCO₂H;

 $-\mathrm{NH_2;} \ -\mathrm{NHSO_2CH_3;} \ -\mathrm{NHP(O)(OBn)_2;} \ -\mathrm{NHP(O)(OH)_2;} \ \mathrm{NH(CH_2)_qCO_2H;} \ -\mathrm{SO_2CH_3;}$

-OP(O)(OBn)₂; -OP(O)(OH)₂; -CO₂H; -O(CH₂)_qCO₂H; -O(CH₂)_qSO₃H,

-O(CH₂)_aOPO₃H₂; wherein

q = 1-20;

or X₉ is

15 wherein

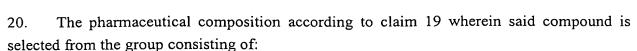
$$t = 1-20$$
;

$$R_5 = -H \text{ or } -Ac;$$

 $X_6 = -CO_2H$; -NHSO₂CH₃; -NHP(O)(OBn)₂; -NHP(O)(OH)₂; -OP(O)(OBn)₂; or -OP(O)(OH)₂.

in a pharmaceutically acceptable vehicle.

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(-)- $(5\alpha,7\alpha,8\beta)$ -N-methyl-N- $[7-(1-pyrrolidinyl)-1-oxaspiro-[4,5]dec-8-yl]-3-(N-methanesulfonamido)aminophenylacetamide; (-)-<math>(5\alpha,7\alpha,8\beta)$ -N-methyl-N- $[7-(1-pyrrolidinyl)-1-oxaspiro-[4,5]dec-8-yl]-3-(N-2-acetic acid)sulfonamidophenylacetamide; and (-)-<math>(5\alpha,7\alpha,8\beta)$ -N-methyl-N-[7-(1-pyrrolidinyl)-1-oxaspiro-[4,5]dec-8-yl]-3-(N-2-acetic acid)carboxamidophenylacetamide.

- 21. The pharmaceutical composition according to claim 19 wherein said compound is selected from the group consisting of:
 - (±)-trans-2-Nitro-N-methyl-N-[2-(1-pyrrolidinyl)cyclohexyl]phenylacetamide Hydrochloride;
 - (±)-trans-2-Amino-N-methyl-N-[2-(1-pyrrolidinyl)cyclohexyl]phenylacetamide Hydrochloride;
 - (±)-trans-2-Nitro-4,5-dichloro-N-methyl-N-[2-(1-pyrrolidinyl)cyclohexyl]-phenylacetamide Hydrochloride;
 - (\pm) -trans-2-Amino-4,5-dichloro-N-methyl-N-[2-(1-pyrrolidinyl)cyclohexyl]-phenylacetamide Hydrochloride;
 - (±)-trans-2-Methanesulfonamido-N-methyl-N-[2-(1-pyrrolidinyl)cyclohexyl]-phenylacetamide Hydrochloride;
 - N-[2-(±)-trans-N-Methyl-N-[2-(1-pyrrolidinyl)cyclohexyl]-phenylacetamido]glycine Hydrochloride;
- 30 (±)-trans-4-Trifluoromethyl-N-methyl-N-[2-(1-pyrrolidinyl)cyclohexyl]-phenylacetamide Hydrochloride;
 - (\pm) -trans-2-Nitro-4-trifluoromethyl-N-methyl-N-[2-(1-pyrrolidinyl)cyclohexyl]-phenylacetamide Hydrochloride;
 - (±)-trans-2-Amino-4-trifluoromethyl-N-methyl-N-[2-(1-pyrrolidinyl)cyclohexyl]-phenylacetamide Hydrochloride;
- (±)-trans-2-Bismethanesulfonamido-4-trifluoromethyl-N-methyl-N-[2-(1-40 pyrrolidinyl)cyclohexyl]-phenylacetamide Hydrochloride;
 - (±)-trans-2-Methanesulfonamido-4-trifluoromethyl-N-methyl-N-[2-(1-pyrrolidinyl)cyclohexyl]-phenylacetamide Hydrochloride;

- N-[2-(±)-trans-4-Trifluoromethyl-N-methyl-N-[2-(1-pyrrolidinyl)cyclohexyl]-phenylacetamido]glycine Hydrochloride;
- (±)-trans-3-Trifluoromethyl-N-methyl-N-[2-(1-pyrrolidinyl)cyclohexyl]-phenylacetamide Hydrochloride;
 - (±)-trans-5-Nitro-3-trifluoromethyl-N-methyl-N-[2-(1-pyrrolidinyl)cyclohexyl]-phenylacetamide Hydrochloride;
- 10 (±)-trans-2-Nitro-3-trifluoromethyl-N-methyl-N-[2-(1-pyrrolidinyl)cyclohexyl]-phenylacetamide Hydrochloride;
 - (±)-trans-2-Trifluoromethyl-N-methyl-N-[2-(1-pyrrolidinyl)cyclohexyl]-phenylacetamide Hydrochloride;
 - (±)-trans-4-Nitro-2-trifluoromethyl-N-methyl-N-[2-(1-pyrrolidinyl)cyclohexyl]-phenylacetamide Hydrochloride;
 - (±)-trans-4-Amino-2-trifluoromethyl-N-methyl-N-[2-(1-pyrrolidinyl)cyclohexyl]-phenylacetamide Hydrochloride;
 - (\pm) -trans-N-Methyl-N-[2-(1-pyrrolidinyl)cyclohexyl]2,2-diphenylacetamide Hydrochloride; and
 - (\pm) -trans-4-Methylsulfonyl-N-methyl-N-[2-(1-pyrrolidinyl)cyclohexyl]phenylacetamide Hydrochloride.
 - 22. A method for the prevention or treatment of pruritus in a patient comprising administering to said patient an effective amount of a composition according to claim 19.
 - 23. A method for the prevention or treatment of pruritus in a patient comprising administering to said patient an effective amount of a composition according to claim 20.
- 24. A method for the prevention or treatment of pruritus in a patient comprising administering to said patient an effective amount of a composition according to claim 21.